

CLAIM AMENDMENTS

I claim:

1. (withdrawn) A glass and plastic composite comprising:
a glass having a shape, a center, a margin;
a plastic having a shape essentially adapted to receive the shape of the glass, a center, a margin; and
a sealant disposed between the margin of the glass and the margin of the plastic, whereby the center of the glass and the center of the plastic are devoid of the sealant.
2. (withdrawn) The composite of claim 1 wherein the glass contains a microwave absorbent compound selected from the group consisting of a metallic salt and a ferrite.
3. (withdrawn) The composite of claim 2 wherein the glass is photochromic.
4. (withdrawn) The composition of claim 1 wherein the plastic is selected from the group consisting of polycarbonate, polyurethane, polystyrene, fluorocarbon and polymethylmethacrylate.
5. (withdrawn) The composition of claim 1 wherein the sealant is selected from the group consisting of silicones, shellac, lacquer, silane coupling agents, disilyl crosslinker compounds, epoxy resins, crosslinkable polyethylene vinylacetate terpolymer, polyvinyl butyral and

polysulfide.

6. (withdrawn) The composite of claim 1 wherein the glass and plastic are transparent and refractive.

7. (withdrawn) The composite of claim 1 wherein the margin of the glass has at least one appendage and the margin of the plastic defines an aperture shaped for receiving the appendage of the glass.

8. (withdrawn) The composite of claim 1 wherein the percentage of glass in the composite is between about 0.01 to 99.99%.

9. (withdrawn) The composite of claim 1 wherein the percentage of plastic in the composite is between about 0.01 to 99.99%.

10. (withdrawn) The composite of claim 1 wherein the margin of the plastic has at least one appendage and the margin of the glass defines an aperture shaped for receiving the appendage of the plastic.

11. (withdrawn) A microwave-transparent spring-loaded vice adapted to hold together the glass

and plastic of claim 1.

12. (withdrawn) The vice of claim 11 wherein the spring tension is between about 0.01 to 200 foot pounds.

13. (withdrawn) A microwave-transparent, weighed vice adapted to hold together the glass and plastic of claim 1.

14. (withdrawn) The vice of claim 11 wherein the vice's holding weight is between about 0.01 to 100 foot pounds.

15. (currently amended) A method of making a glass and plastic optical composite comprising:
forming a glass with a rigid nature having a center and a margin to a particular shape;
forming a plastic with a plastic nature having center and a margin to a shape essentially
adapted to receive the shape of the glass; and
applying microwave radiation for a time effective to anneal the formed plastic, optically
correct the formed plastic and optically contact [affix] the formed plastic to the formed glass
[whereby the shape of the formed glass and the shape of the formed plastic remain substantially
unchanged].

16. (cancelled)

17. (previously presented) The method of claim 15 wherein the microwave radiation is applied at about between 10 watts to 100,000 watts and a frequency of about between 3 Ghz to 3000 Ghz.

18. (previously presented) The method of claim 15 wherein the microwave radiation is applied for between about 0.01 minutes to 100 minutes.

19. (currently amended) A method of making a glass and plastic composite comprising:

forming a glass having a center and a margin to a particular shape;

forming a plastic having a margin and a center to a shape essentially adapted to receive the shape of the glass; and

applying microwave radiation for a time effective to affix the formed glass and the formed plastic together [whereby the shape of the formed glass and the shape of the formed plastic remain substantially unchanged]; and

applying sealant only to the margin of the glass and the margin of the plastic, whereby the center of the glass and the center of the plastic are devoid of the sealant.

20. (cancelled)

21. (previously presented) The method of claim 19 wherein the microwave radiation is applied for between about 0.01 minutes to 100 minutes.

22. (previously presented) The method of claim 19 wherein the microwave radiation is applied at between about 10 watts to 100,000 watts and at a frequency of about between 3 Ghz to 3000 Ghz.

Claims 23-33. (cancelled)

34. (withdrawn) A glass and plastic composite made according to the method of claim 15.

35. (cancelled)

36. (previously presented) The method of claim 15 wherein the margin of the plastic is formed with a notch adapted to interlockingly receive the margin of the glass.

37. (previously presented) The method of claim 19 wherein the margin of the plastic is formed with a notch adapted to interlockingly receive the margin of the glass.

Claims 38-39. (cancelled)

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40. (currently amended) 40. The method of claim 15 wherein a sealant is applied only to the margins of the glass and the margin of the plastic after the microwave radiation has [affixed the glass and the plastic together] annealed the formed plastic, optically corrected the formed plastic and optically contacted the formed plastic to the formed glass, whereby the center of the glass and the center of the plastic remain devoid of sealant.

41. (previously presented) The method of claim 40 wherein the sealant is capable of being cured by exposure to air.

42. (previously presented) The method of claim 40 wherein the sealant is exposed to microwave radiation for a time effective to enhance the strength of the sealant.

43. (previously presented) The method of claim 19 wherein the sealant is capable of being cured by exposure to air.

44. (previously presented) The method of claim 19 wherein the sealant is exposed to microwave radiation for a time effective to enhance the strength of the sealant..

45. (previously presented) A method of making a glass and plastic composite comprising:

forming a glass having a center and a margin to a particular shape;

forming a plastic having a margin and a center to a shape essentially adapted to receive the [shaped] shape of the glass;

applying sealant only to the margin of the glass and the margin of the plastic, whereby the center of the glass and [center to the plastic] center of the plastic are devoid of the sealant; and
applying microwave radiation for a time effective to enhance the reaction kinetics of the sealant and optically contact the formed plastic to the formed glass.

46. (previously presented) The method of claim 45 wherein the sealant is capable of being cured by exposure to air.

47. (previously presented) The method of claim 45 wherein the microwave radiation is applied for between about 0.01 minutes to 100 minutes.

48. (previously presented) The method of claim 45 wherein the microwave radiation is applied at between about 10 watts to 100,000 watts and at a frequency of about between 3 Ghz to 3000 Ghz.

49. (previously presented) The method of claim 45 wherein the margin of the plastic is formed with a notch adapted to interlockingly receive the margin of the glass.